

# K SRI CHARAN

[✉ katamonisricharan@gmail.com](mailto:katamonisricharan@gmail.com) | [📞 +91-9440386496](tel:+919440386496) | [LinkedIn](#) | [GitHub](#)

## Education

**University College of Engineering, Osmania University**  
*B.E. in Computer Science and Engineering*

**Expected Graduation: 2027**  
*CGPA: 9.5 / 10*

## Skills

**Programming Languages:** C, C++, Python

**Web Technologies:** HTML, CSS, JavaScript, React, Redux Toolkit, Node.js, Express, REST APIs

**Databases:** MongoDB (NoSQL), MySQL (Relational), Supabase ((PostgreSQL))

**Tools:** Git, GitHub, Vercel

**Coursework:** Operating Systems, Data Structures and Algorithms, Object-Oriented Programming (OOP)

## Experience

### Full-Stack Engineering Intern

*TryItFirstLabs — Hyderabad, Telangana (Remote)*

**October 2025 – Present**

*Tools Used: MERN Stack, Tailwind CSS*

- Built a **responsive e-commerce frontend** using **React, Tailwind CSS, and Redux Toolkit**, implementing cart, search, filtering, and checkout flows, reducing user navigation time by **40%**.
- Developed **scalable REST APIs** with **Node.js, Express, and MongoDB** for authentication (JWT), product management, and order processing, supporting **500+ concurrent users**.
- Integrated **Cloudinary** for media handling and **PayPal** for secure payments; deployed on **Vercel** with real-time inventory synchronization.
- Implemented an **admin dashboard** with role-based access for user, order, and product management, improving operational efficiency by **50%**.

## Projects

### Multi-Threaded Proxy Server | C, Linux, Socket Programming | GitHub

**October 2025**

- Implemented a **multi-threaded HTTP proxy server** in C capable of handling **400+ concurrent clients** using pthreads, semaphores, and TCP socket programming.
- Implemented an **LRU cache** with mutex-based synchronization storing **200MB of data** to reduce response time for frequently accessed websites.

### AI Chatbot | HTML, CSS, JavaScript, Gemini API | GitHub

**June 2025**

- Built a **responsive AI chatbot** using HTML, CSS, and JavaScript, integrating the **Google Gemini API** for real-time responses with stop-generation control and persistent chat history (**100+ threads**).
- Optimized **DOM rendering and client-side state management**, reducing response latency by **50%** and improving responsiveness across desktop and mobile.

### LeetCollege — LeetCode Analytics Platform | React, Supabase | Live Demo · GitHub

**October 2025**

- Developed a **responsive leaderboard dashboard** using **TypeScript, Vite, and Tailwind CSS**, displaying real-time college and global rankings from **LeetCode** data, reducing load time by **40%**.
- Integrated **Supabase (PL/pgSQL)** for contest data ingestion and user/college analytics, enabling scalable ranking aggregation across institutions with **99.9% uptime**.

### Notes Sharing Web App | TypeScript, React, Supabase | Live Demo · GitHub

**September 2025**

- Built a **responsive note-sharing web app** using **TypeScript, Vite, and Tailwind CSS**, enabling real-time note creation and sharing with optimized rendering that reduced collaboration latency by **45%**.
- Integrated **Supabase** for authentication and real-time database sync with full CRUD support; deployed on **Vercel** with **99.9% uptime**, supporting **150–200 active students**.

## Key Accomplishments

- **Problem Solving & Competitive Programming:** SSolved **820+** problems on **LeetCode** (Rating: **1610**)
- **Academic & Competitive Success:** Secured strong competitive exam ranks — **EAMCET: 2,852, JEE Main: 21,265, JEE Advanced: 6,975.**
- **Other Projects:** Developed frontend applications such as a **3D Agency Website**, and **Sorting Visualizer** — showcasing strong skills in UI engineering, user experience, and deployment.